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AMENDMENTS TO THE CLAIMS

Please amend claims 20-22, and 24 as set forth below. Please add new claim 29, and withdraw claims 1-19 and 26-28, without prejudice or disclaimer.

The current listing of claims replaces all prior listings.

- 1. (Withdrawn) A C3A clonal cell line derived from a parental C3A cell line, wherein said clonal cell line has a doubling time in serum-free medium significantly less than the doubling time of said parental line in said serum-free medium.
- 2. (Withdrawn) The clonal cell line of claim 1, wherein the doubling time in serum-free medium of said clonal cell line is less than about 70% of the doubling time in serum-free medium of said parental C3A cell line.
- 3. (Withdrawn) The clonal cell line of claim 1, wherein said doubling time in serum-free medium of said clonal cell line is in the range of less than about 50% to less than about 70% of the doubling time in serum-free medium of said parental C3A cell line.
- 4. (Withdrawn) The cell line of claim 1, wherein cells of said cell line cultured in serumfree medium express a single or any combination of a plurality of harvestable polypeptides.
- 5. (Withdrawn) The cell line of claim 4, wherein said cells express alpha fetal protein (AFP).
- 6. (Withdrawn) The cell line of claim 4, wherein said cells express human albumin.
- 7. (Withdrawn) The cell line of claim 4, wherein said cells express α -1-antichymotrypsin.
- 8. (Withdrawn) The cell line of claim 4, wherein said cells express α -1-antitrypsin.

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- 9. (Withdrawn) The cell line of claim 4, wherein said cells express antithrombin III.
- 10. (Withdrawn) The cell line of claim 4, wherein said cells express complement C3.
- 11. (Withdrawn) The cell line of claim 4, where said cells express Factor V.
- 12. (Withdrawn) The cell line of claim 4, wherein said cells express transferrin.
- 13. (Withdrawn) The cell line of claim 4, wherein said cells express a single or any combination of a plurality of harvestable polypeptides selected from the group consisting of: alpha fetal protein (AFP), human albumin, α-1-antichymotrypsin, α-1-antitrypsin, antithrombin III, complement C3, Factor V and transferrin.
- 14. (Withdrawn) The cell line of claim 1, said cell line having an ATTC accession No. of CRL-12461.
- 15. (Withdrawn) A method of producing a single or any combination of a plurality of harvestable polypeptides, comprising:
 - a) culturing cells of the cell line of claim 1 in serum-free medium,
 - b) expressing said polypeptide/s from said cells; and
 - c) recovering said polypeptide/s from said culture to produce a harvestable polypeptide.
- 16. (Withdrawn) A method of producing the cell line of claim 1, comprising:
 - a) sequentially culturing cells of a parental C3A cell line in a series of medium having incrementally decreasing concentration of serum, the final medium in said series being serum free,
 - b) generating a clonal cell colony of said cells from said final medium in said series of
 - a) in serum-free medium; and
 - c) propagating said colony in serum-free medium to produce a serum-free cell line.

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17. (Withdrawn) The method of claim 16, wherein one of said series of medium having incrementally decreasing concentration of serum in said sequential cultures series has a ratio of serum containing and serum-free medium of about 50:50.

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- 18. (Withdrawn) The method of claim 16, wherein one of said series of medium having incrementally decreasing concentration of serum in said sequential cultures series has a ratio of serum containing and serum-free medium of about 25:75.
- 19. (Withdrawn) The method of claim 16, wherein the serum-free medium is JRH Bioscience ExCell 620 supplemented with 2mM L-glutamine.
- 20. (Currently Amended) A bio-artificial liver device comprising an apparatus containing cells of the cell line deposited as ATCC accession No. CRL-12461 or cells clonally derived from cells deposited as ATCC accession No. CRL-12461 of claim 1, wherein the said cells are cultured in serum-free medium on a surface in the said device in an amount and having liver specific biological activity at a level sufficient to sustain a subject having a liver disorder or comprised compromised liver function, and wherein the surface is contained within a hollow fiber cartridge.
- 21. (Currently Amended) A method of using cells of the cell line <u>deposited as ATCC</u> accession No. CRL-12461 or cells clonally derived from cells deposited as ATCC accession No. CRL-12461 of claim-1 in a bio-artificial liver device, comprising:
 - a) providing said the cells to a surface in the said device; and
 - b) culturing the said cells in the said device in serum-free medium;
 - c) attaching the device to a subject between an artery and vein of the subject,

wherein the device is in fluid communication with the artery and vein; and

d) perfusing blood from the subject through the attached device,

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wherein the cultured cells interact with the blood to provide bio-artificial liver support for the subject.

- 22. (Currently Amended) A method of treating a subject having compromised liver function, comprising:
- a) providing cells of the cell line <u>deposited as ATCC accession No. CRL-12461 or cells</u> <u>clonally derived from cells deposited as ATCC accession No. CRL-12461 of claim 1</u> to a surface in a bio-artificial liver device, wherein <u>the said</u> cells are provided in an amount and having liver specific biological activity at a level sufficient to sustain said subject having said compromised liver function,
 - b) culturing said cells in said device in serum-free medium; and
- c) perfusing passaging blood from said subject through the device to contact said cells, wherein the perfusing said passaging results in removal of blood-borne toxic solutes molecules entering said device and release of molecules protein and low molecular weight products from said cells into blood exiting said device.
- 23. (Original) The method of claim 22, wherein said device is outside said subject.
- 24. (Currently Amended) The method of claim 22, wherein the compromised liver function is associated with Fulminant hepatic failure (FHF) said-device is inside said subject.
- 25. (Original) The method of claim 22, wherein said subject is a human.
- 26. (Withdrawn) A method of producing protein comprising:
 - a) culturing cells of any of claims 1 to 14 in serum-free medium to express a single or any combination of a plurality of harvestable polypeptides; and
 - b) recovering said polypeptide/s to produce protein.
- 27. (Withdrawn) A method of screening compounds for metabolic activity comprising:

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- a) providing a compound to cells of the cell line of claim 1, wherein said cells are cultured in serum-free medium; and
- b) analyzing said cells for the presence of metabolites of said compound to screen for metabolic activity.
- 28. (Withdrawn) A method of studying enteric disease comprising:
- a) providing a bacterial organism to cells of the cell line of claim 1, wherein said cells are cultured in serum free medium; and
 - b) employing said cells of a) for experimental use to study enteric disease.
- 29. (New) The method of claim 24, wherein the protein is albumin.